Mapper

```
class MAPPER
method INITIALIZE()
      Create empty temp_list
      Create empty temp dict
      Set old_user_id to some non-positive integer (say 0)
  method MAP(line I)
      info <- split the line
      user_id <- info[0]
      movie id <- info[1]
      rating <- info[2]
      if rating >= 4.0 do
            if old_user_id != user_id do
                  sort temp_list
                  for all movie i in temp list do
                       for all movie_j > movie_i in temp_list do
                             if movie_j in temp_dict do
                                   temp_dict[movie_j] <- temp_dict[movie_j] + 1
                             else
                                   temp dict[movie j] <- 1
                       EMIT(movie_i, movie_dict)
                       movie dict <- {}
                  temp_list <- []
                  old_user_id <- user_id
            else
                 temp_list.append(movie_id)
```

Reducer